

FIG. 1

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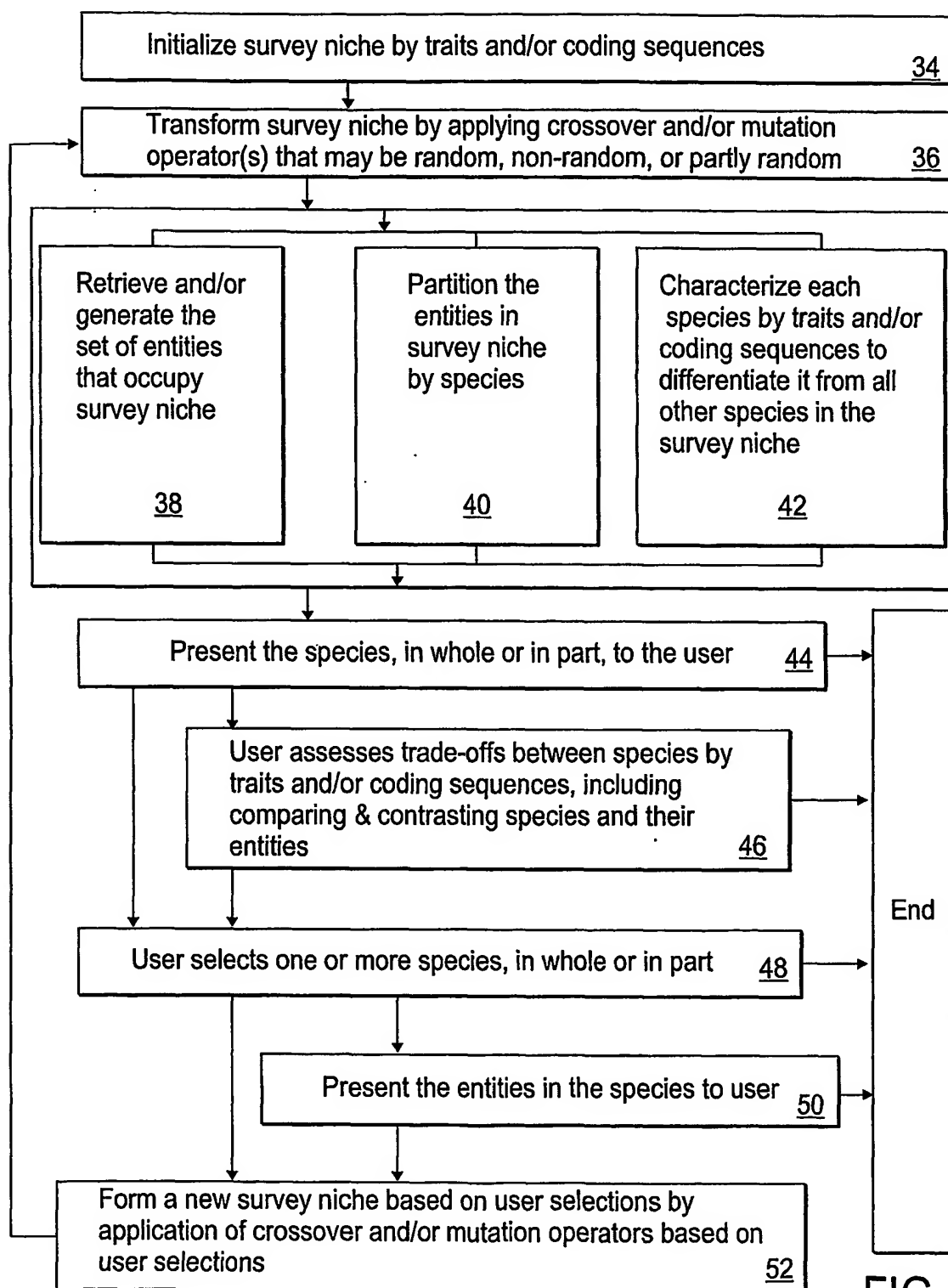


FIG. 2

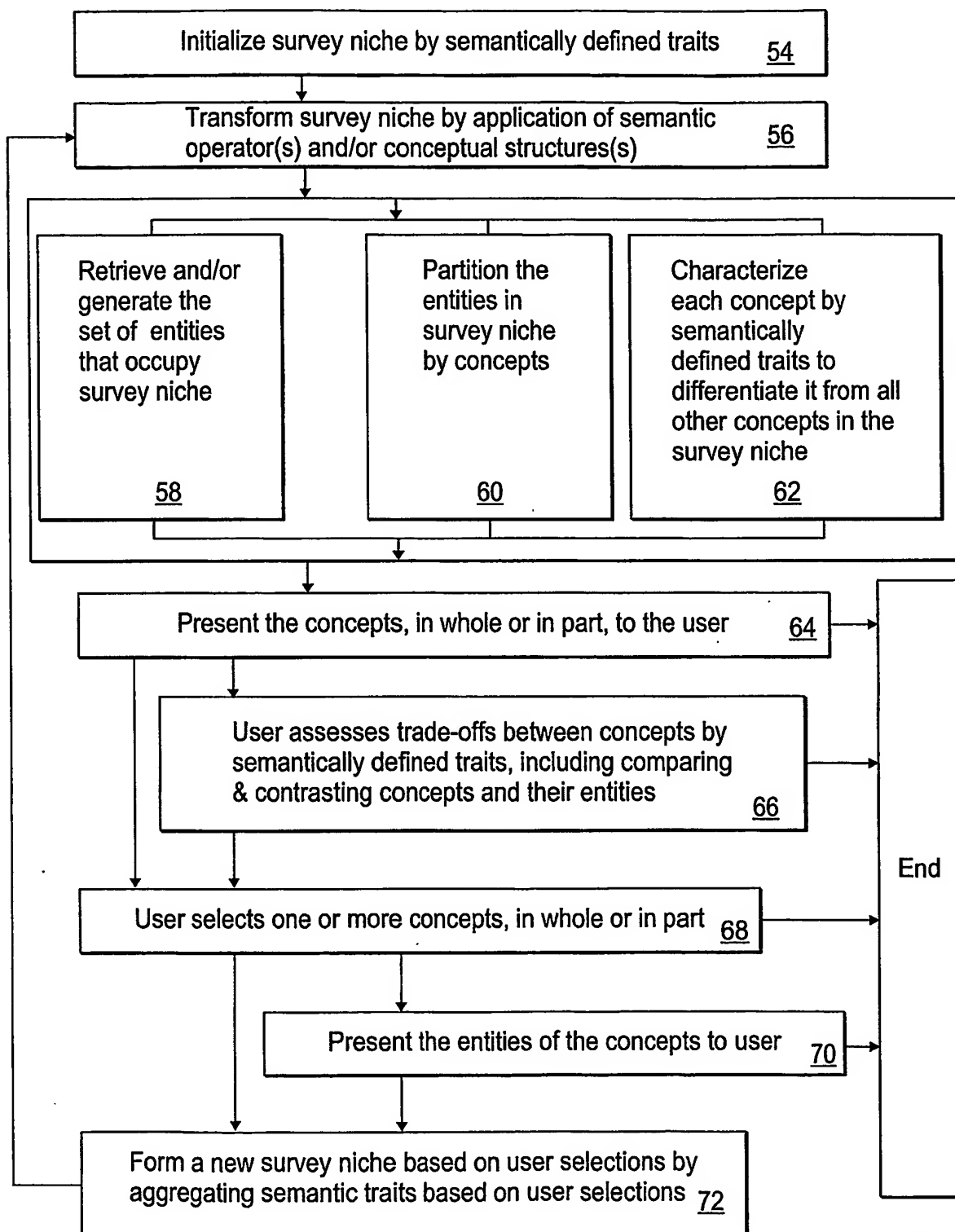


FIG. 3

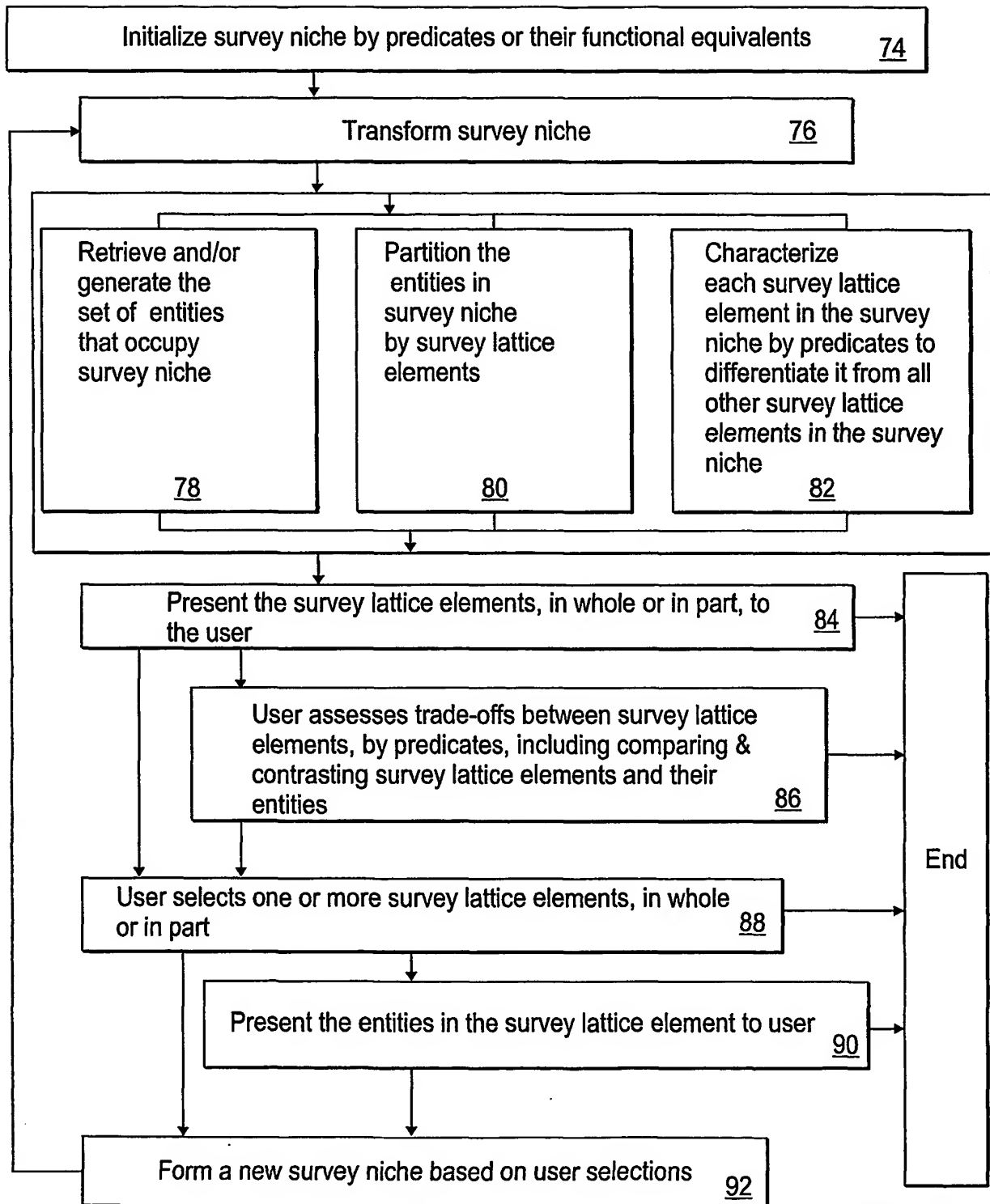


Fig. 4

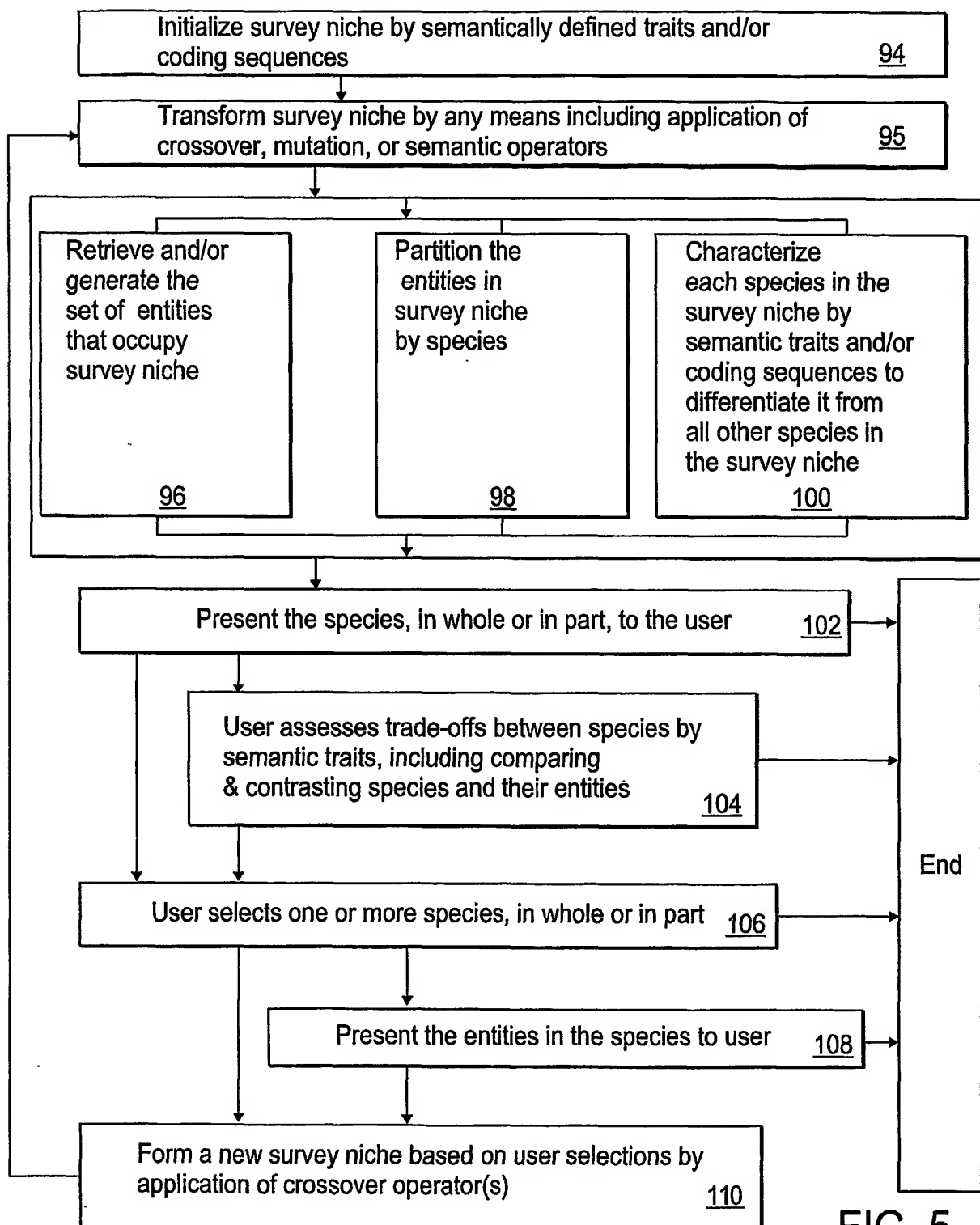


FIG. 5

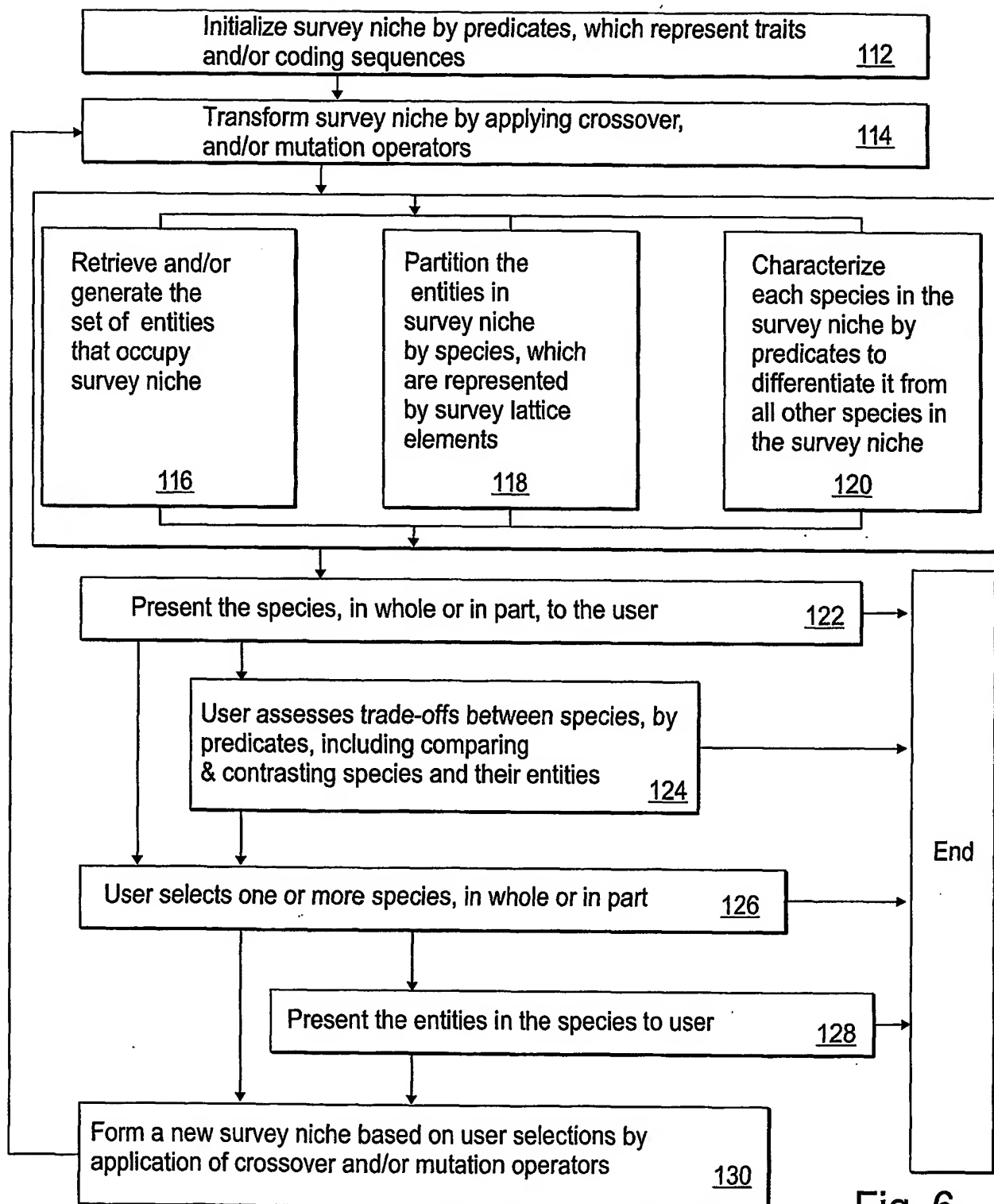


Fig. 6

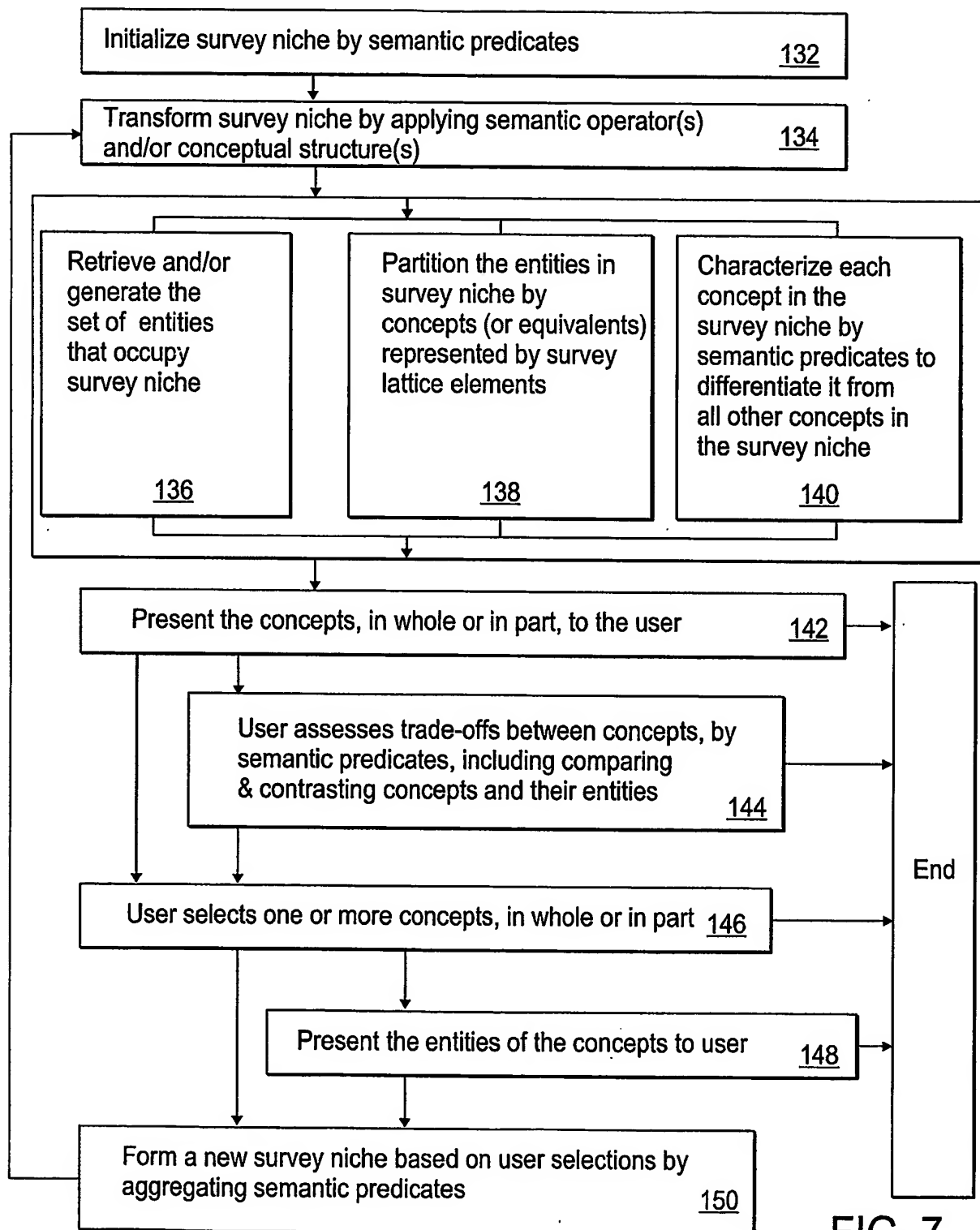


FIG. 7

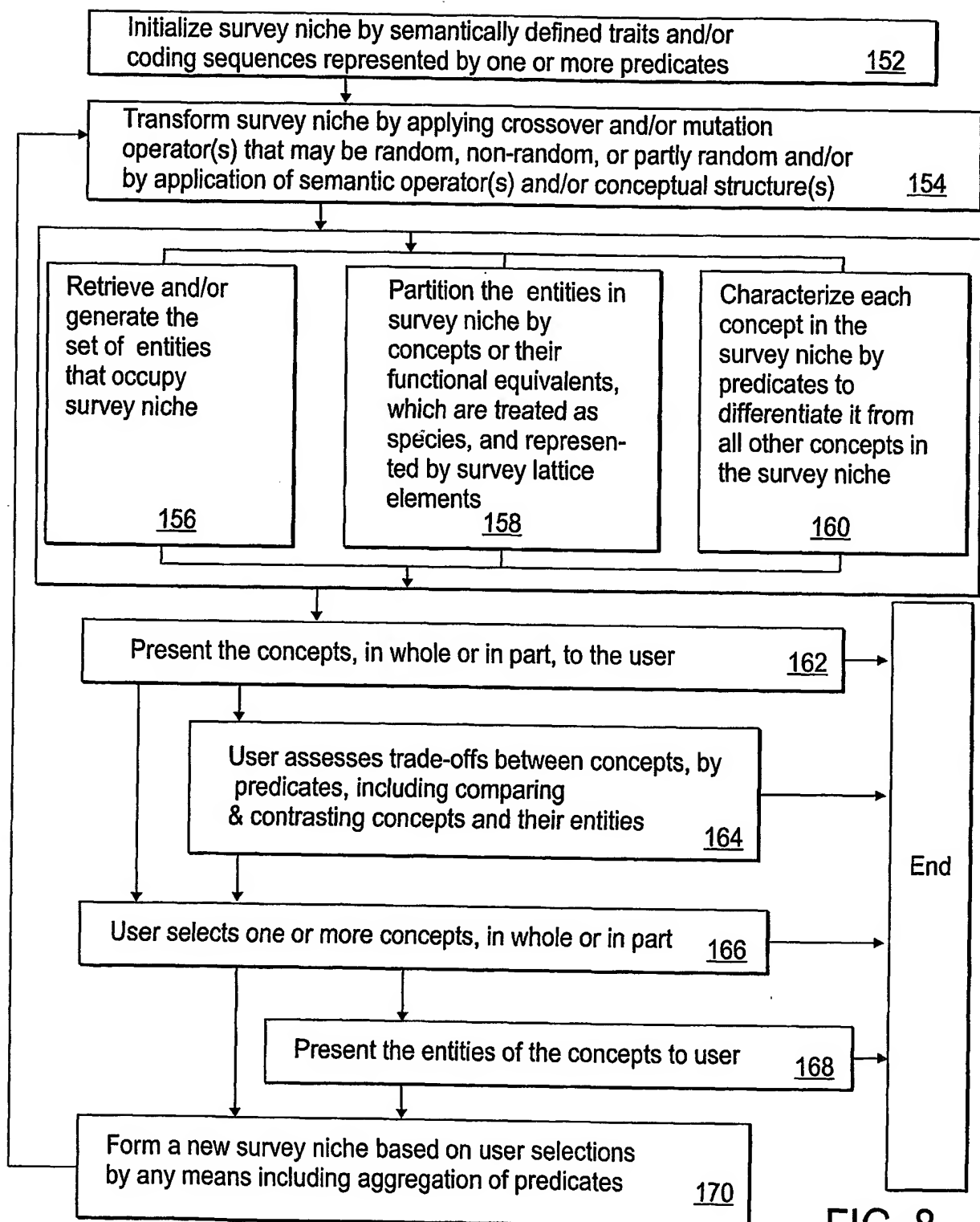


FIG. 8

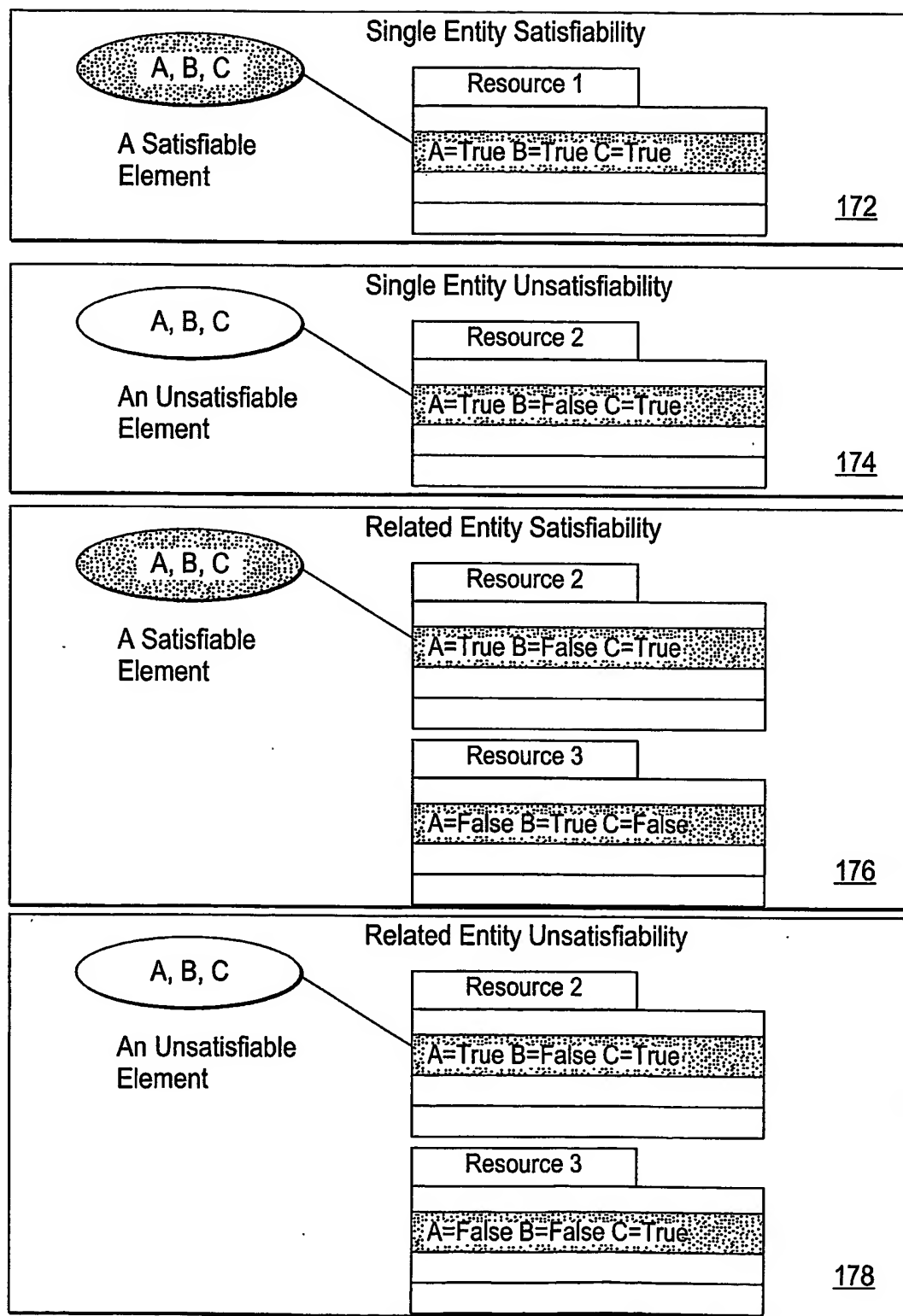


FIG. 9

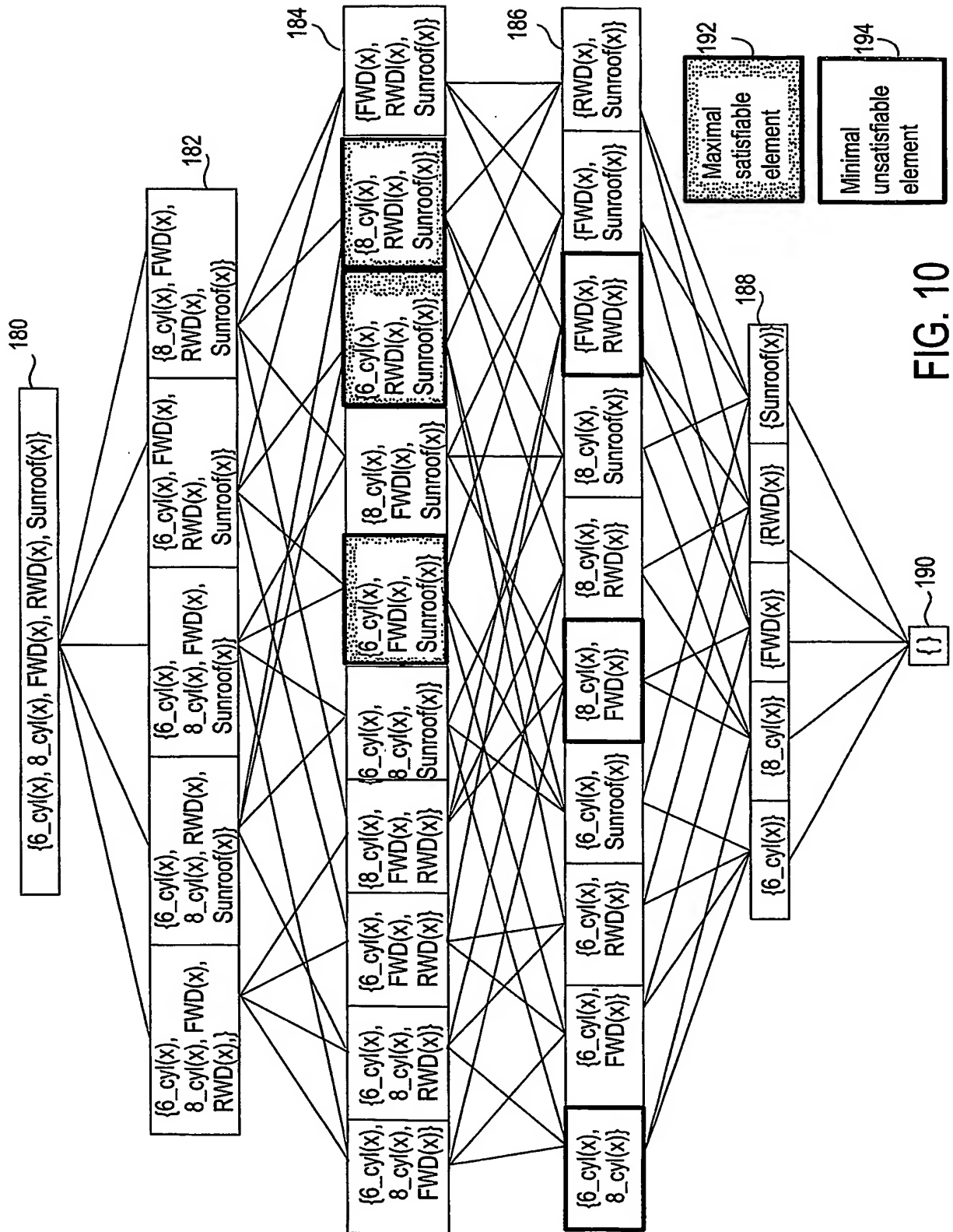


FIG. 10

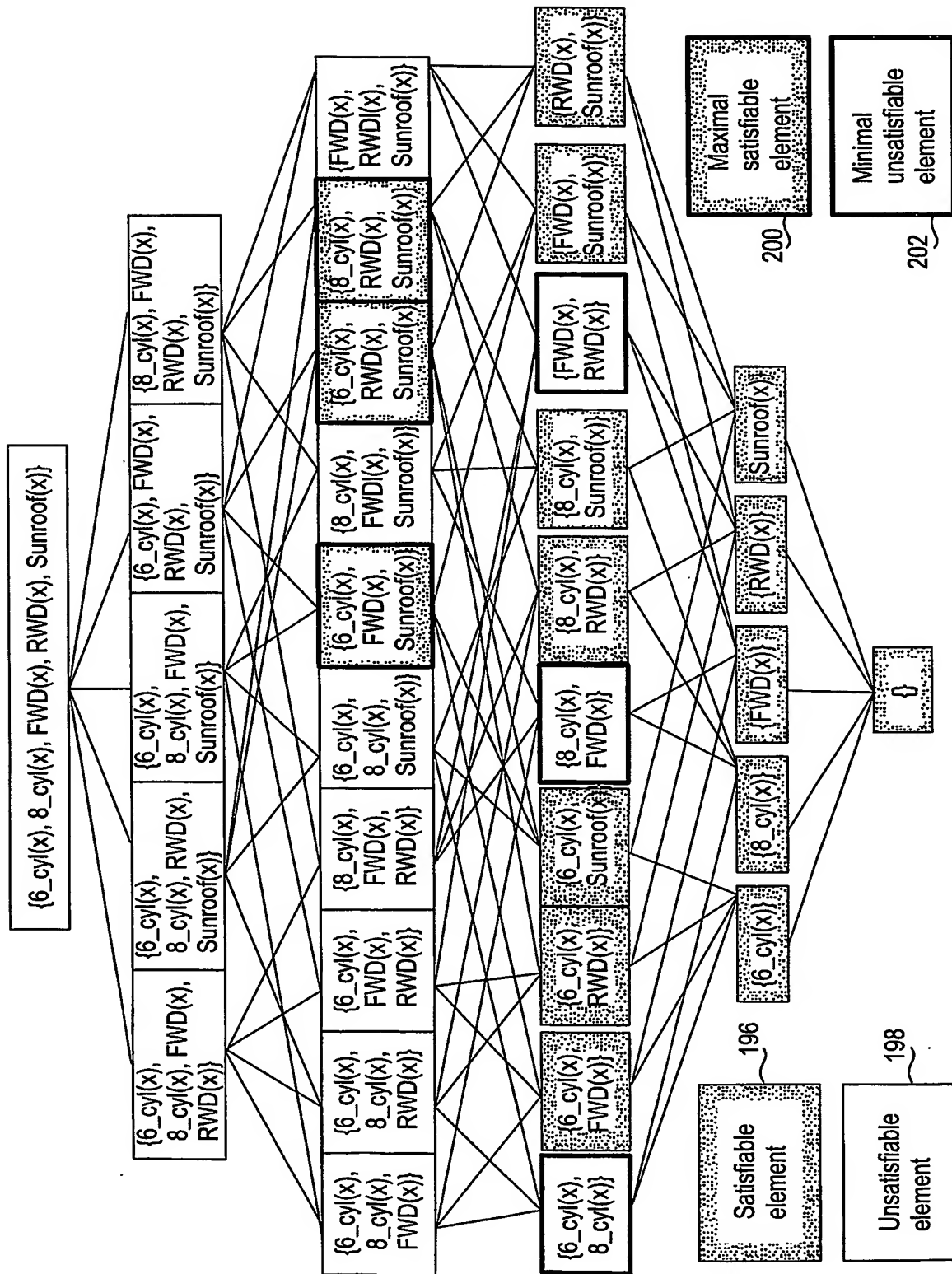


FIG. 11

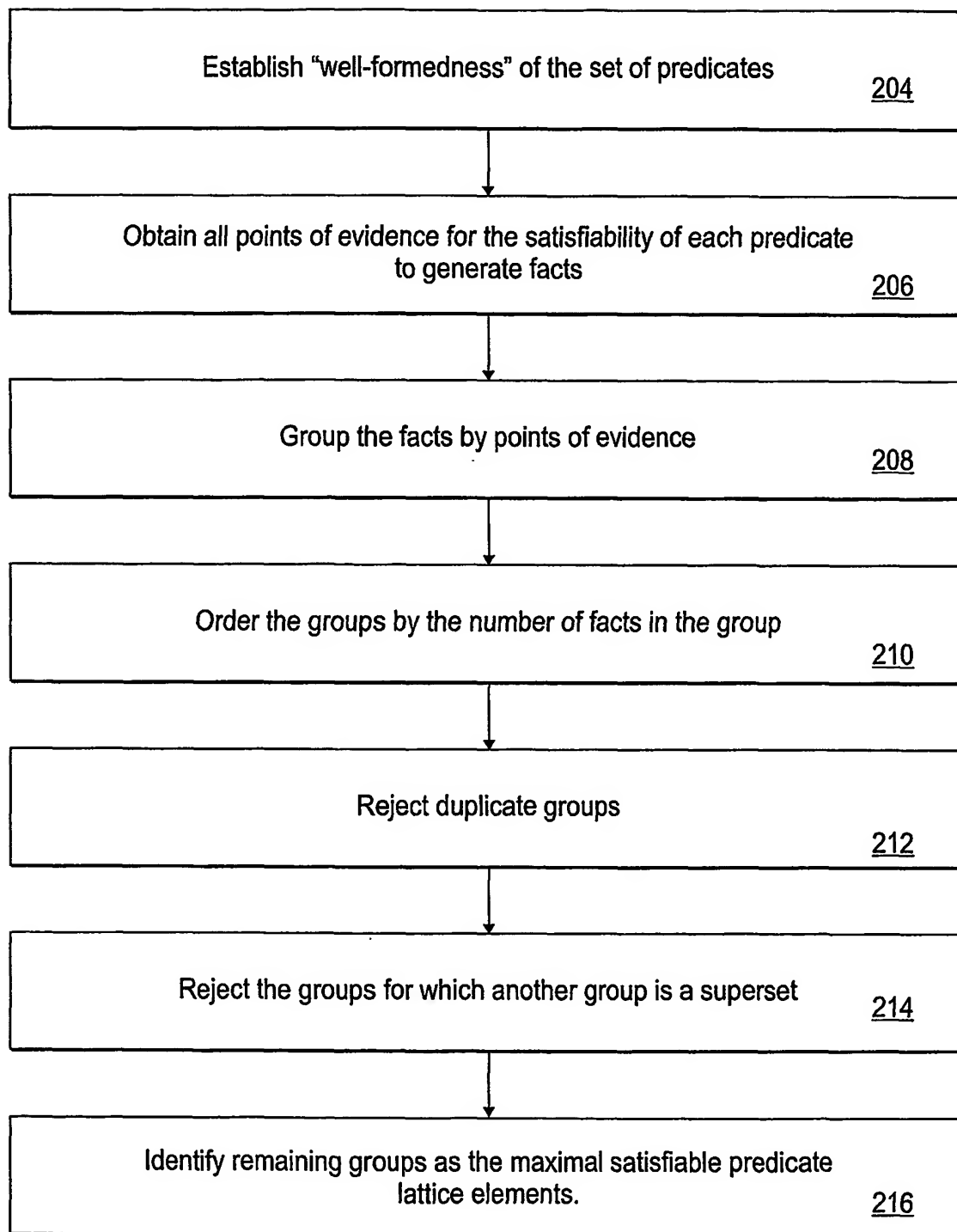


FIG. 12

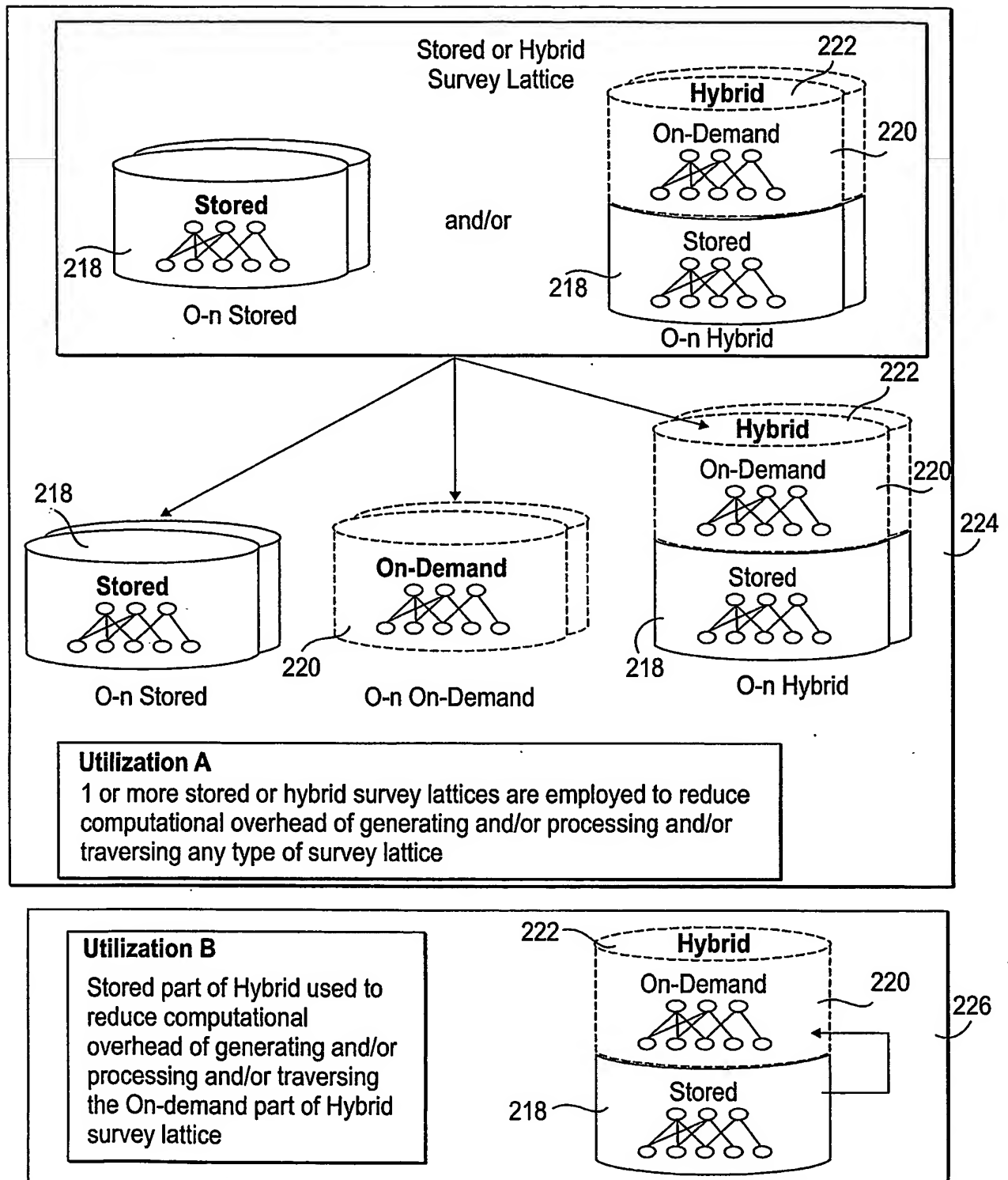


FIG. 13

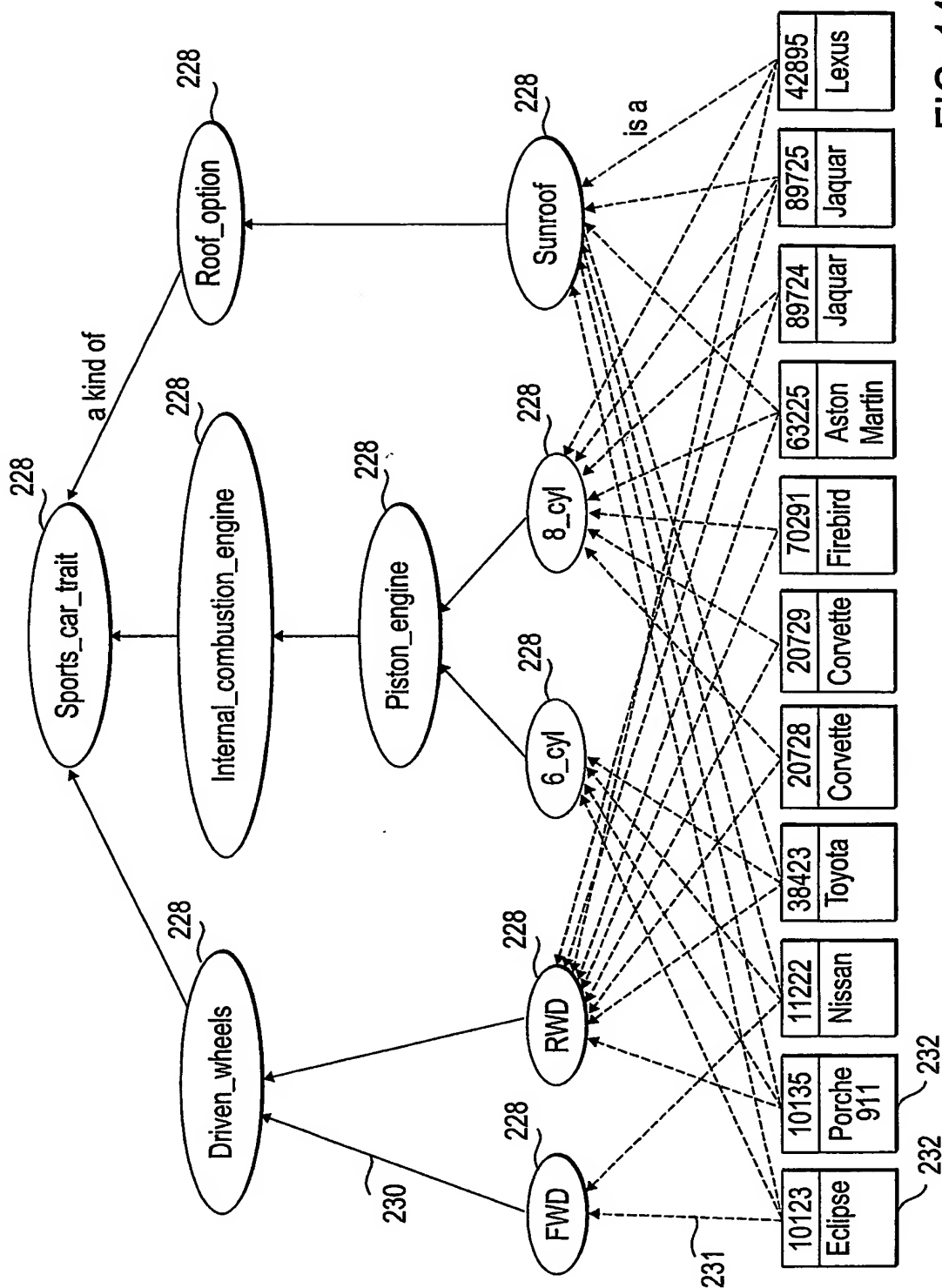


FIG. 14

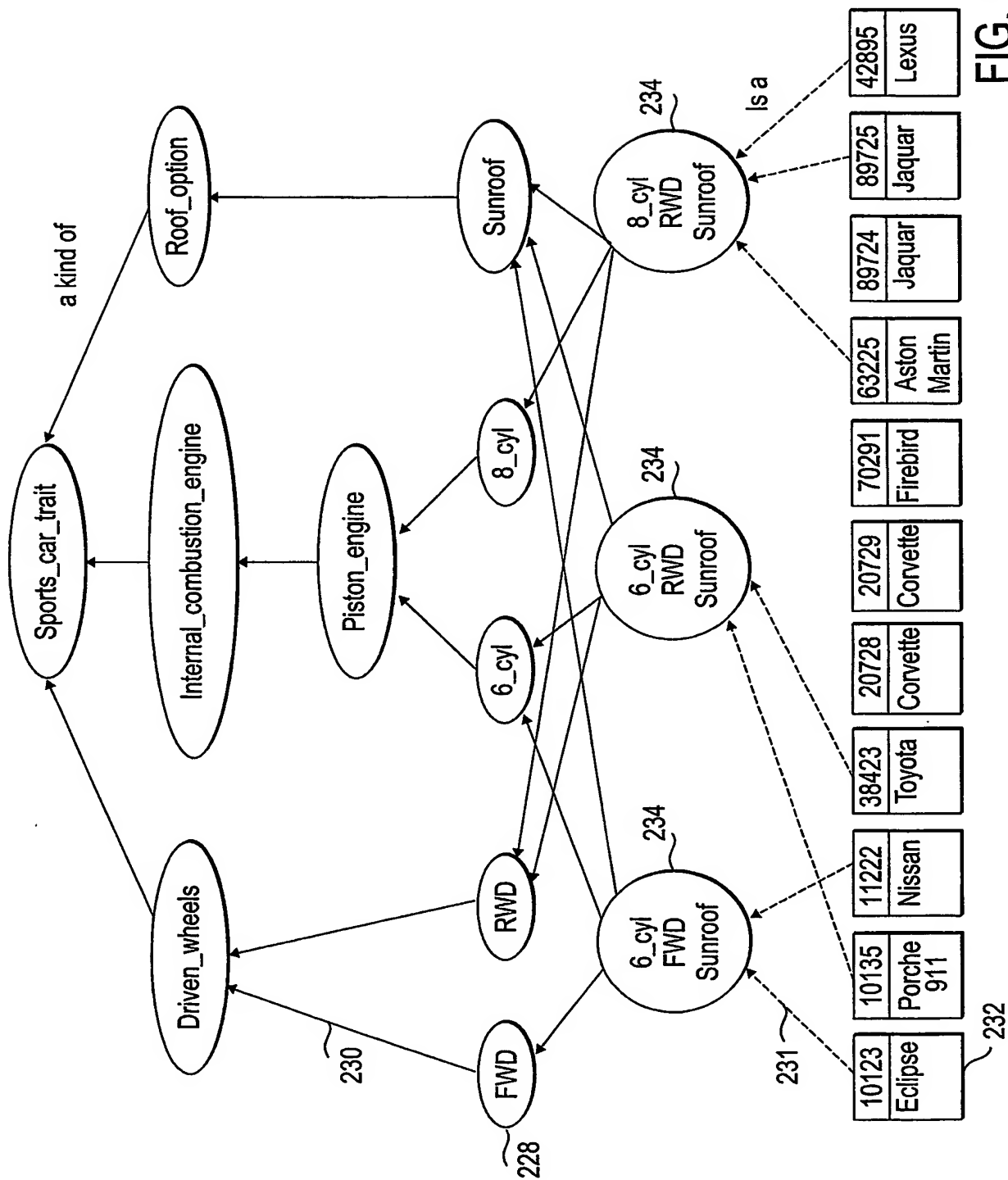


FIG. 15

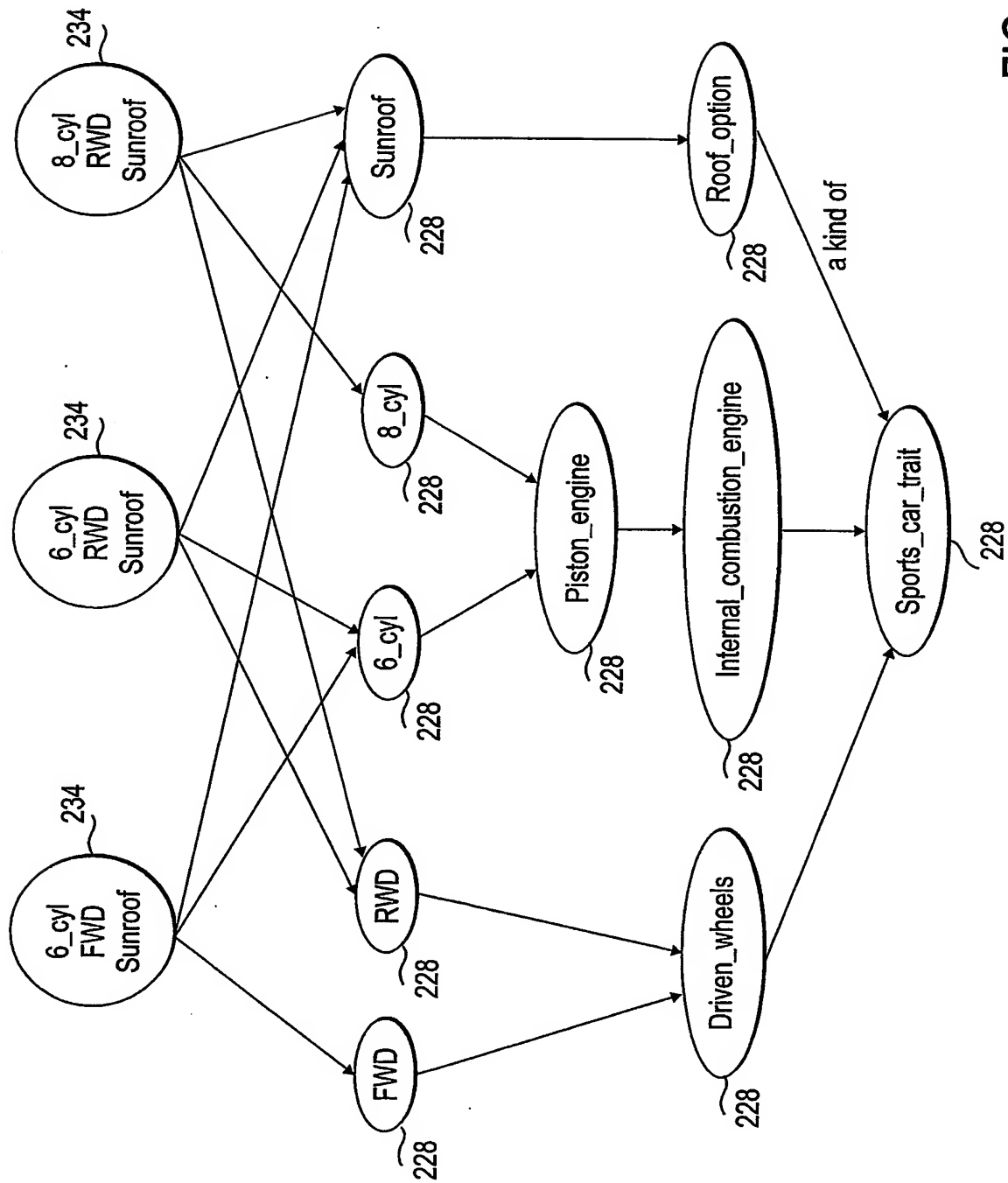


FIG. 16

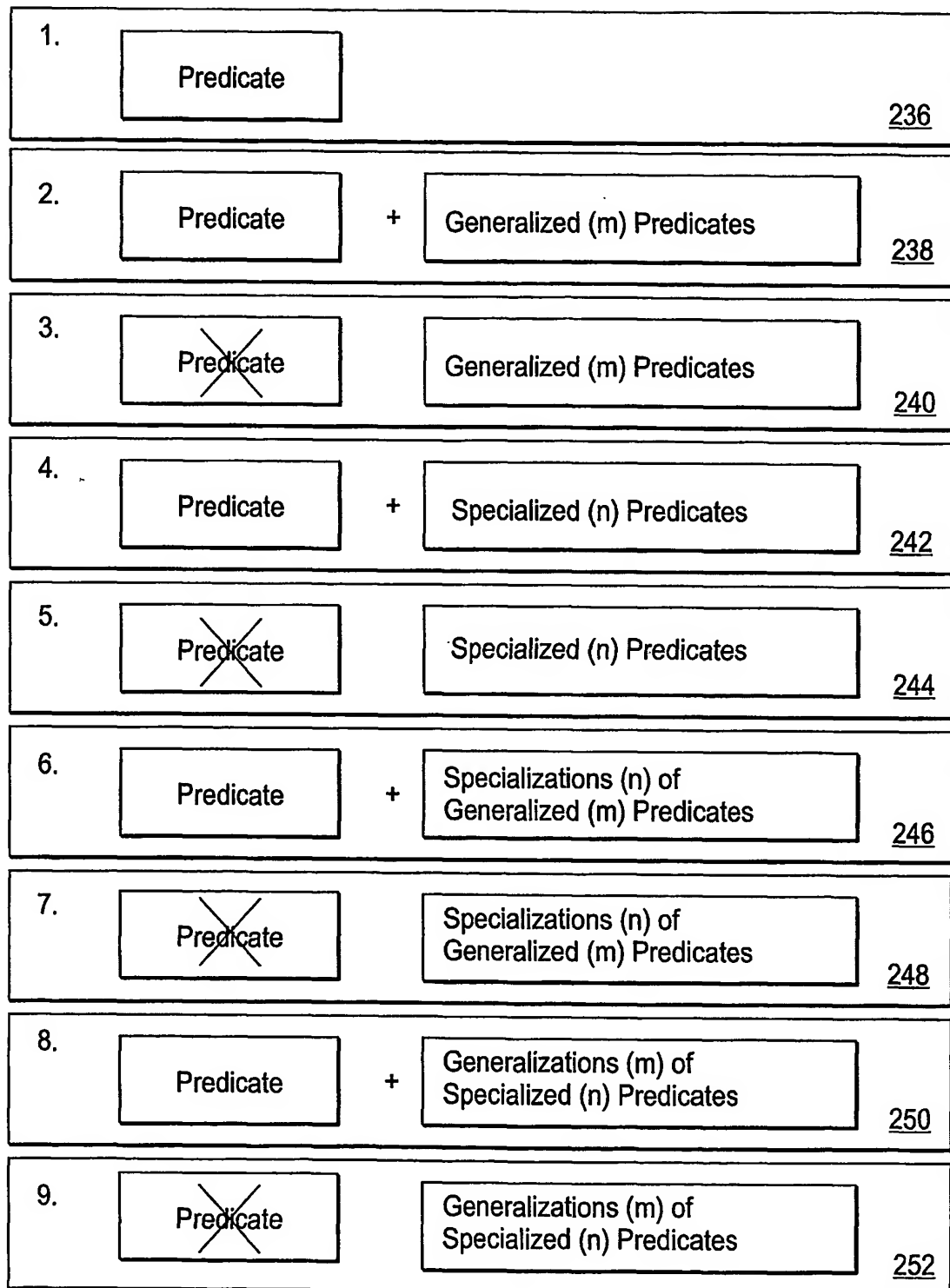


FIG. 17

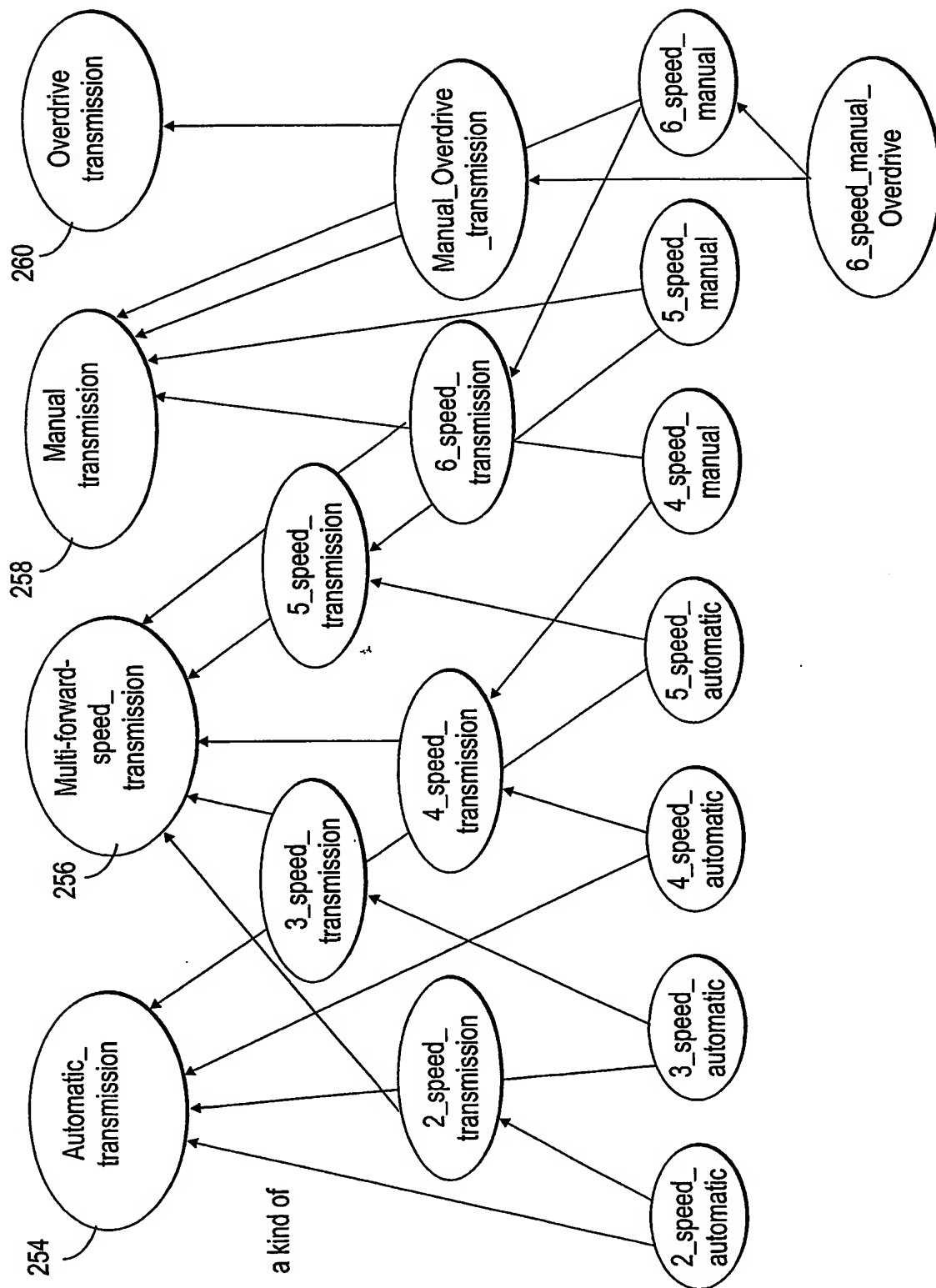


FIG. 18

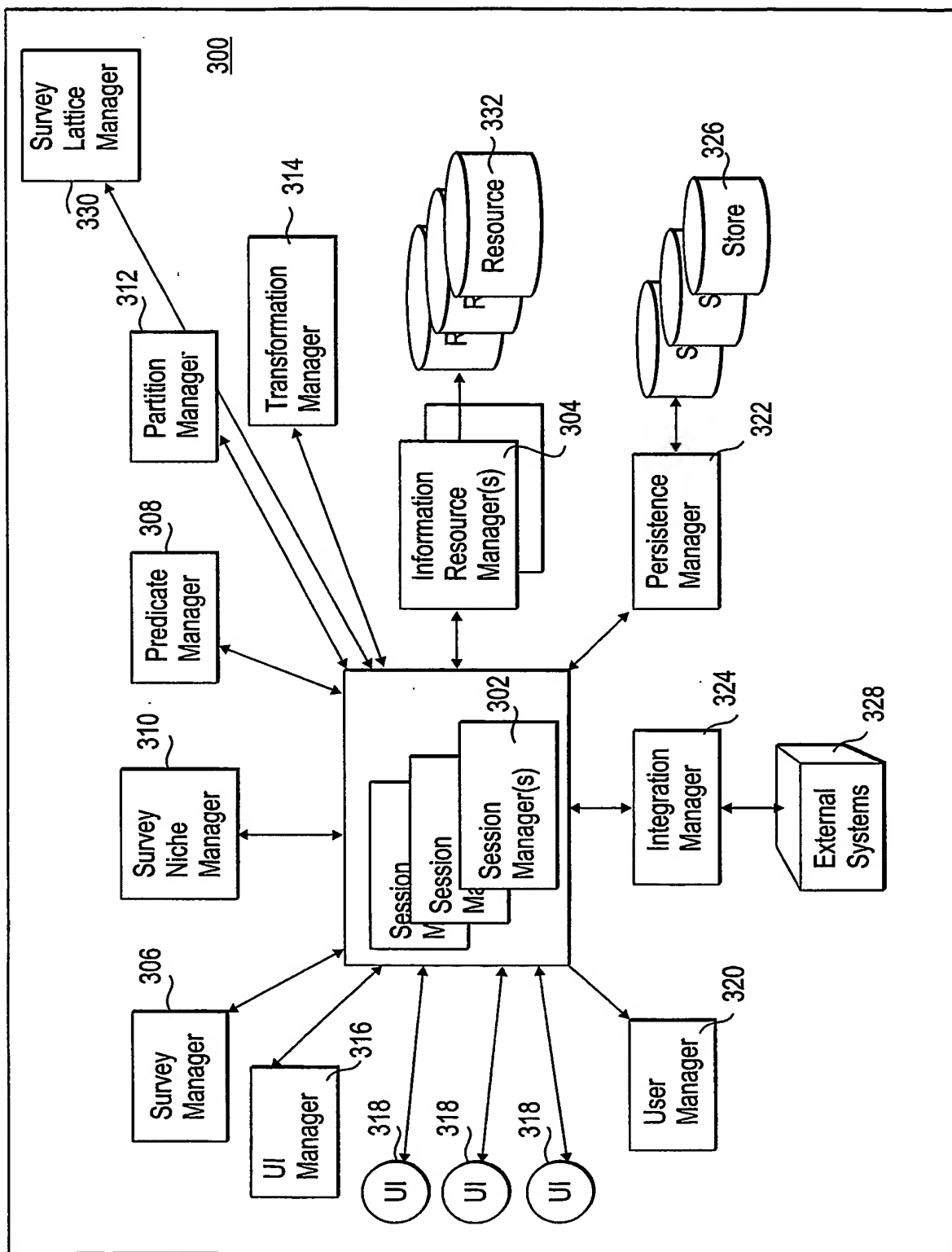


FIG. 19

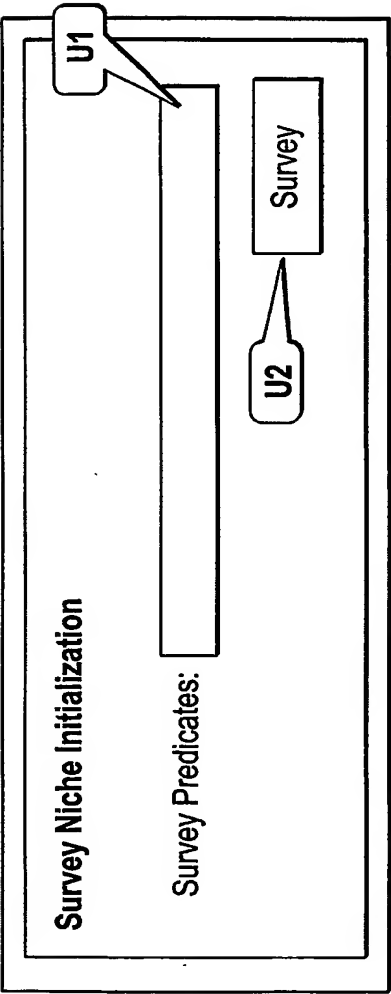


FIG. 20

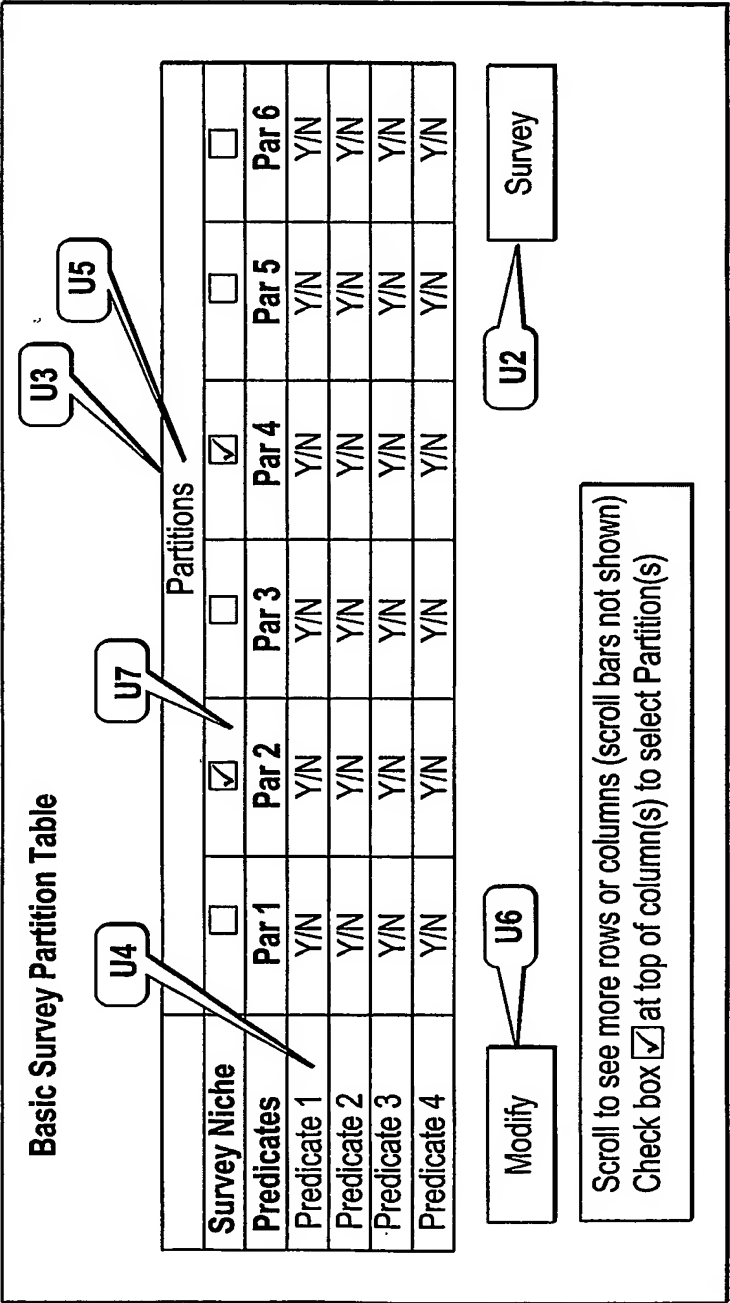


FIG. 21

Enhanced Survey Table						
	<div style="text-align: center;"> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </div> <div style="text-align: center;">U7</div>					
Survey Niche	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Predicates	Par 1	Par 2	Par 3	Par 4	Par 5	Par 6
Predicate 1	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
Predicate 2	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
Predicate 3	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
Predicate 4	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
Monitors						
# of Entities	Value	Value	Value	Value	Value	Value
Survey Monitor 1	Null/Stats/ abstraction	Null/Stats/ abstraction	Null/Stats/ abstraction	Null/Stats/ abstraction	Null/Stats/ abstraction	Null/Stats/ abstraction
Survey Monitor 2	Null/Stats/ abstraction	Null/Stats/ abstraction	Null/Stats/ abstraction	Null/Stats/ abstraction	Null/Stats/ abstraction	Null/Stats/ abstraction
	<div style="text-align: center;"> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> </div> <div style="text-align: center;">U8</div>					
Survey Niche	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Predicates	Ent 1	Ent 2	Ent 3	Ent 4	Ent 5	Ent 6
Predicate 1	value	value	value	value	value	value
Predicate 2	value	value	value	value	value	value
Predicate 3	value	value	value	value	value	value
Predicate 4	value	value	value	value	value	value
Monitors						
Link to Resource	<u>link 1</u>	<u>link 2</u>	<u>link 3</u>	<u>link 4</u>	<u>link 5</u>	<u>link 6</u>
Survey Monitor 1	value	value	value	value	value	value
Survey Monitor 2	value	value	value	value	value	value
Modify				Survey		
<div style="text-align: center;">U6</div> <div style="text-align: center;">U2</div>						
Drag and drop columns or rows to reorganize table Scroll to see more rows or columns (scroll bars not shown) Check box <input checked="" type="checkbox"/> at top of column(s) to select Partition(s) or entities						

FIG. 22

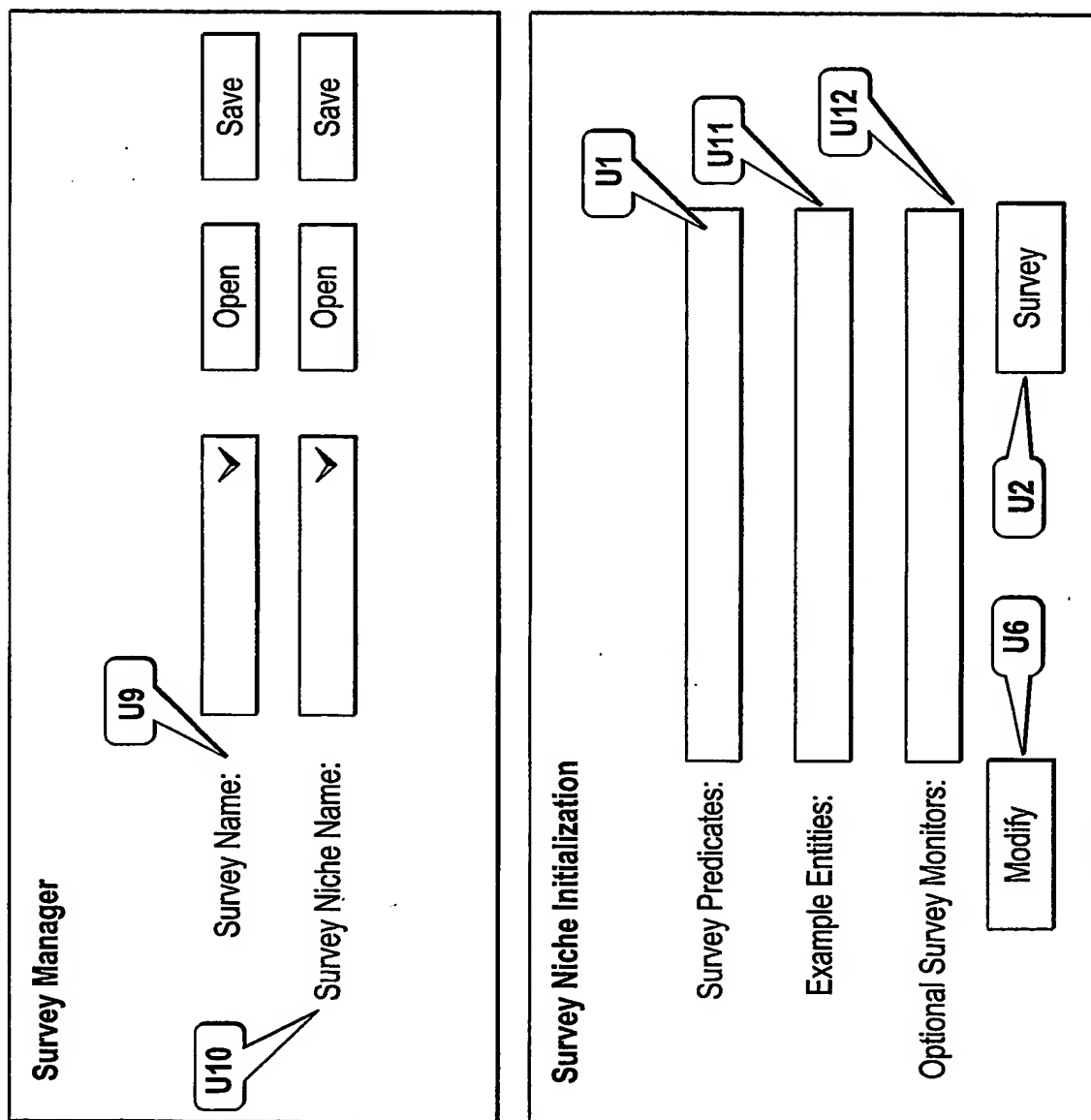


FIG. 23

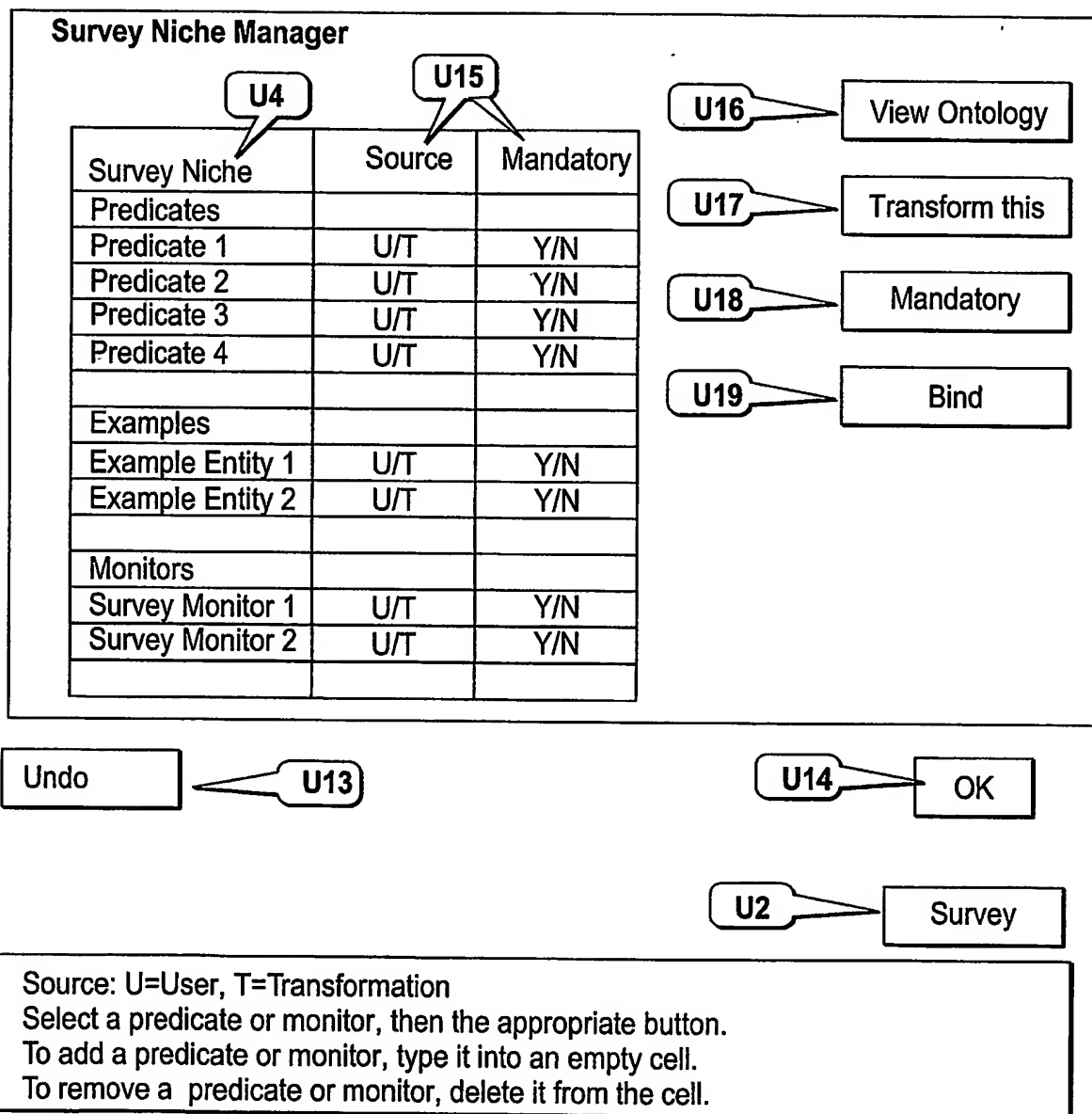


FIG. 24

U23

Survey Lattice Tables						
Survey Niche	Minimal Unsatisfiable Survey Lattice Elements					
Predicates	Min 1	Min 2	Min 3	Min 4	Min 5	Min 6
Predicate 1	Value/null	Value/null	Value/null	Value/null	Value/null	Value/null
Predicate 2	Value/null	Value/null	Value/null	Value/null	Value/null	Value/null
Predicate 3	Value/null	Value/null	Value/null	Value/null	Value/null	Value/null
Predicate 4	Value/null	Value/null	Value/null	Value/null	Value/null	Value/null

U7

U24

Maximal Satisfiable Survey Lattice Elements						
Survey Niche	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Predicates	Max 1	Max 2	Max 3	Max 4	Max 5	Max 6
Predicate 1	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
Predicate 2	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
Predicate 3	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
Predicate 4	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N

Monitors						
# of Entities	Value	Value	Value	Value	Value	Value
Survey Monitor 1	Null/Stats/ abstraction	Null/Stats/ abstraction	Null/Stats/ abstraction	Null/Stats/ abstraction	Null/Stats/ abstraction	Null/Stats/ abstraction
Survey Monitor 2	Null/Stats/ abstraction	Null/Stats/ abstraction	Null/Stats/ abstraction	Null/Stats/ abstraction	Null/Stats/ abstraction	Null/Stats/ abstraction

Entities for Selected Max						
Survey Niche	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Predicates	Ent 1	Ent 2	Ent 3	Ent 4	Ent 5	Ent 6
Predicate 1	value	value	value	value	value	value
Predicate 2	value	value	value	value	value	value
Predicate 3	value	value	value	value	value	value
Predicate 4	value	value	value	value	value	value

Monitors						
Link to Resource	<u>link 1</u>	<u>link 2</u>	<u>link3</u>	<u>link 4</u>	<u>link 5</u>	<u>link 6</u>
Survey Monitor 1	value	value	value	value	value	value
Survey Monitor 2	value	value	value	value	value	value

Modify

U6

U2

Survey

Drag and drop columns or rows to reorganize table

Scroll to see more rows or columns (scroll bars not shown)

Check box ☒ at top of column(s) to select Partition(s) or entities

FIG. 25

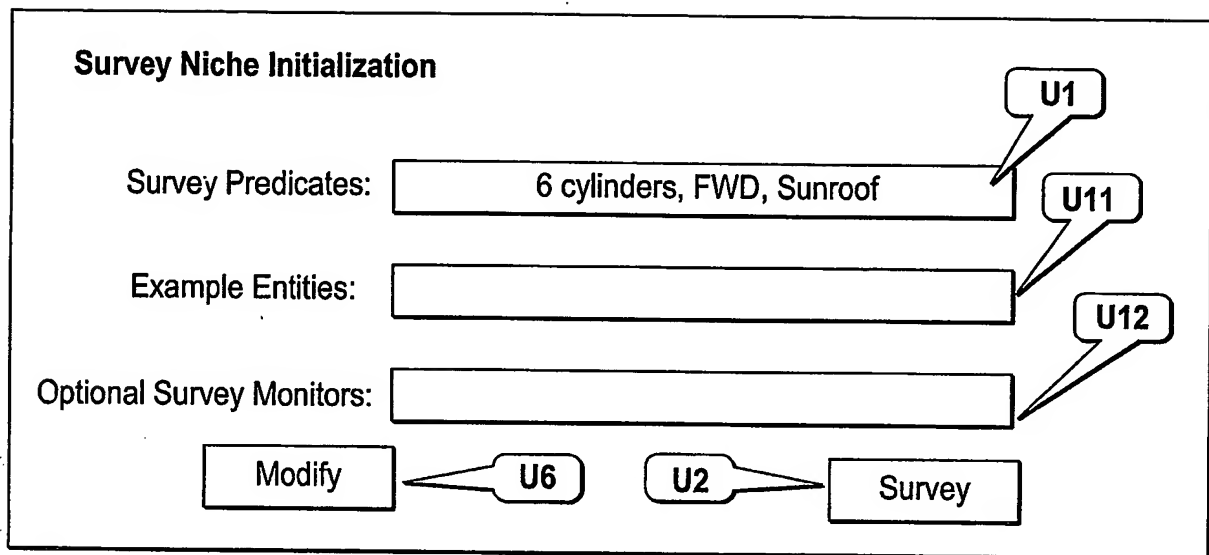


FIG. 26

Sports Car Survey Lattice Tables

U25

Survey Niche	Minimal Unsatisfiable Survey Lattice Elements		
Predicates	Min 1	Min 2	Min 3
6 cylinders	6 cyl		
8 cylinders	8 cyl		8 cyl
Front Wheel Dr		FWD	FWD
Real Wheel Dr		RWD	
Sunroof			

U26

Survey Niche	Maximal Satisfiable Survey Lattice Elements		
Predicates	<input type="checkbox"/> Max 1	<input type="checkbox"/> Max 2	<input checked="" type="checkbox"/> Max 3
6 cylinders	Y	Y	N
8 cylinders	N	N	Y
Front Wheel Dr	Y	N	N
Real Wheel Dr	N	Y	Y
Sunroof	Y	Y	Y
Monitors			
# of Entities	2	2	3

U27

Survey Niche	Entities for Selected Max = Max 3		
Predicates	<input type="checkbox"/> Ent 1	<input type="checkbox"/> Ent 2	<input type="checkbox"/> Ent 3
6 cylinders	N	N	N
8 cylinders	Y	Y	Y
Front Wheel Dr	N	N	N
Real Wheel Dr	Y	Y	Y
Sunroof	Y	Y	Y
Monitors			
Link to Resource	<u>link 1</u>	<u>link 2</u>	<u>link3</u>
Name	Aston Martin	Jaquar	Lexus
Primary Key	63225	89725	42895

Modify

U6

U2

Survey

Drag and drop columns or rows to reorganize table
 Scroll to see more rows or columns (scroll bars not shown)
 Check box ☒ at top of column(s) to select Partition(s) or entities

FIG. 27

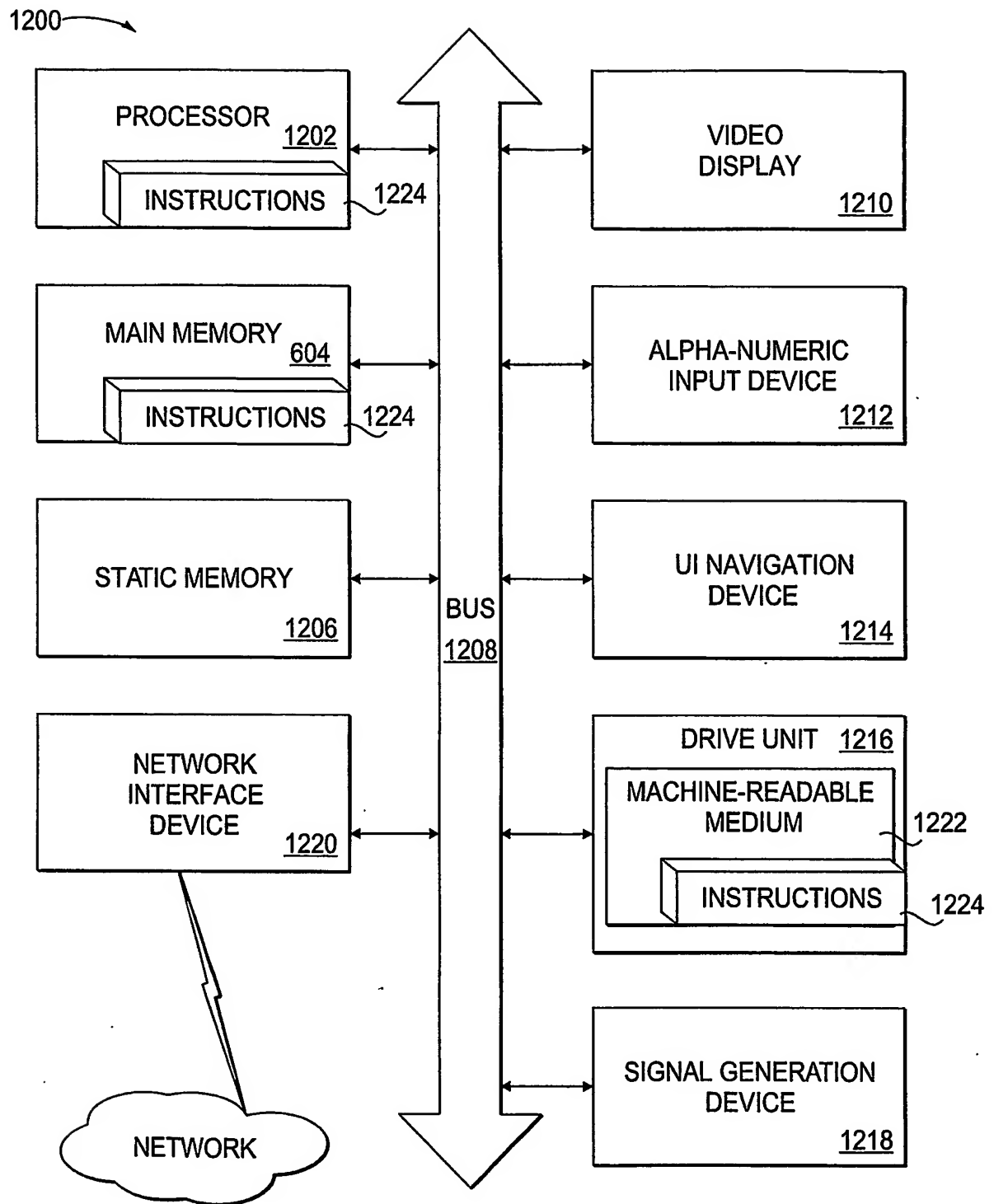


Fig. 28

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